







~~another~~ at least one other function, invokes the ~~invoked~~ first function utilizing the stacked function record area, executes the ~~invoked~~ first function which has been invoked and then discards the stacked function record area is recorded, the computer program comprising:

a procedure for causing the computer to analyze an execution format of a the first invoking function, ~~which is obtained by compiling from compiled~~ source-codes, to be executed in the function record area; and

a procedure for causing the computer to execute a second invoking function, which is different from the first invoking function, and that includes ~~a process of~~ utilizing the function record area ~~to execute the invoking function as an area to invoke the invoked first function, as an alternative function to the first invoking function when it is judged from the analysis that execution results of an invoked function to be invoked by the first invoking function become execution results of the invoking function~~ if the first invoking function is analyzed to be tail recursive.